



PATENT ATTORNEY DOCKET: 46884-5453

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)
Xin GAO et al.	) Confirmation No.: 1674
Application No.: 10/566,265	) Group Art Unit: 2878
Filed: January 30, 2006	) Examiner: Minsun Oh Harvey
For: SEMICONDUCTOR LASER DIODE	)
Commissioner for Patents U.S. Patent and Trademark Office Customer Window Alexandria, VA 22314	
Sir:	

# SUBMISSION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Applicants bring to the attention of the Examiner the attached document.

Attached is an English-language translation of an International Preliminary Examination Report ("IPER"), including PCT/IB/373 and English translation of PCT/ISA/237, dated May 15, 2006 that issued in a related PCT/JP2004/006501 application. Applicants respectfully request that the Examiner consider the IPER as it relates to the above-identified application.

While the IPER cites seven particular documents, these documents are not attached hereto because they were cited in an Information Disclosure Statement in this application on January 30, 2006.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that the listed document is material or constitute "prior art."

If it should be determined that the listed document does not constitute "prior art" under United

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States law, Applicants reserve the right to present to the office the relevant facts and law

regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability

of the disclosed invention over the listed documents, should one or more of the documents be

applied against the claims of the present application.

**EXCEPT** for issue fees payable under 37 C.F.R. § 1.18, the Commissioner is hereby

authorized by this paper to charge any additional fees during the entire pendency of this

application including fees due under 37 C.F.R. § 1.16 and 1.17 which may be required, including

any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0573.

This paragraph is intended to be a CONSTRUCTIVE PETITION FOR EXTENSION OF

TIME in accordance with 37 C.F.R. § 1.136(a)(3).

Respectfully submitted,

DRINKER, BIDDLE & REATH LLP

Dated: August 7, 2006

By:

John G/Sphith

Registration No. 33.818

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### **PCT**

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

34, chemin des Colombettes

1211 Geneva 20, Switzerland

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To:

HASEGAWA, Yoshiki SOEI PATENT AND LAW FIRM Ginza First Bldg. 10-6, Ginza 1-chome Chuo-ku, Tokyo 1040061 JAPON

Yoshiko Kuwahara

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Date of mailing (day/month/year) 26 May 2006 (26.05.2006)	
Applicant's or agent's file reference FP04-0159-00	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/006501	International filing date (day/month/year) 07 May 2004 (07.05.2004)
Applicant HAMAMA	TSU PHOTONICS K.K. et al
Transmittal of the translation to the applicant.	(RECEIVED) (106. 6. 05) (SOE)
The International Bureau transmits herewith a c patentability (Chapter I).	copy of the English translation of the international preliminary report on
The International Bureau transmits herewith a c patentability (Chapter II).	copy of the English translation of the international preliminary report on
2. Transmittal of the copy of the translation to the design	nated or elected Offices.
The International Bureau notifies the applicant that copie Offices requiring such translation:	es of that translation have been transmitted to the following designated or elected
None	
translation from the International Bureau only upon their	•
FC, FF, EG, EP, ES, FI, GB, GD, GE, GH, GM,	BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, , HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, VC, VN, YU, ZA, ZM, ZW
3. Reminder regarding translation into (one of) the offici	al language(s) of the elected Office(s).
The applicant is reminded that, where a translation of the must contain a translation of any annexes to the internation	e international application must be furnished to an elected Office, that translation and preliminary report on patentability (Chapter $\Pi$ ).
It is the applicant's responsibility to prepare and fu applicable time limit (Rule 74.1). See Volume $\Pi$ of the	rnish such translation directly to each elected Office concerned within the PCT Applicant's Guide for further details.
The International Bureau of WIPO	Authorized officer

### **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference. FP04-0159-00	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2004/006501	International filing date (day/month/year) 07 May 2004 (07.05.2004)	Priority date (day/month/year) 31 July 2003 (31.07.2003)	
International Patent Classification (8th See relevant information in Form P	edition unless older edition indicated) CT/ISA/237		
Applicant HAMAMATSU PHOTONICS K.K.			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).		
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.  In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.		
3.	This report contains indications relating to the following items:		
	Box No. I	Basis of the report	
	Вох №. П	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority	

Date of issuance of this report 15 May 2006 (15.05.2006)

Telephone No. +41 22 338 90 90

Yoshiko Kuwahara

Authorized officer

Facsimile No. +41 22 740 14 35 Form PCT/IB/373 (January 2004)

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#### PATENT COOPERATION TREATY

TRANSLATTON From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (dav/month/vear) Applicant's or agent's file reference FOR FURTHER ACTION FP04-0159-00 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/006501 07.05.2004 31.07.2003 International Patent Classification (IPC) or both national classification and IPC Applicant HAMAMATSU PHOTONICS K.K. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability: citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP

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4

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/006501

Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ation, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:
		•

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/006501

Box		at under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicable nations supporting such statement	lity;
I.	Statement	11	
	Novelty (N)	Claims 1-28	YES
	Inventive step (IS)	Claims 1-28	YES
	Industrial applicability (IA)	Claims 1-28	YES
2.	Citations and explanations:		
	Document 4: JP 200 August 200 Document 5: WO 0 Document 6: JP 6-2 September	2/054116 A2 (Forskningscenter Riso) 11 July 2002 44505 A (Matsushita Electric Industries Co., Ltd.) 02	
	Claims 1-28 The inventions of clair	ns 1-28 are neither described nor suggested in documents 1-7	•